

**BHARATIYA VIDYA BHAVAN , KOCHI**  
**YEAR PLAN 2026-2027**  
**STD XI ENGLISH**

<b>MONTH</b>	<b>MAIN TEXT</b>	<b>SUPPLEMENTARY READER</b>	<b>GRAMMAR</b>	<b>WRITING</b>
JUNE (23 days)	L1. The Portrait of a Lady P1. A Photograph	L1. The Summer of the Beautiful White Horse	G1. Tenses	W1. Poster
JULY (25 days)	P2. The Laburnum Top L2. We are not afraid to die...if we can be together <b>(NOT TO BE INCLUDED FOR UT1)</b> L3. Discovering Tut the Saga Continues. <b>(ONLY FOR GROUP ACTIVITY )</b>		G2. Reordering of sentences	W3. Advertisements (Classifieds) Situation Wanted/Vacant For sale/ To Let <b>(NOT TO BE INCLUDED FOR UT1)</b>
<b>UNIT TEST I (27/07/2026 - 03/08/2026)</b>				
AUGUST ( 16 days)	P3. The Voice of the Rain	L2. The Address		R1. Note Making W2. Speech
SEPTEMBER ( 22 days)	P4. Childhood	L4. Birth		
OCTOBER ( 22 days)		L3. Mother's Day <b>(NOT TO BE INCLUDED FOR TERM END EVALUATION )</b>	G3. If Clauses <b>(NOT TO BE INCLUDED FOR TERM END EVALUATION )</b>	
<b>TERM END EVALUATION (28/9/2026- 9/10/2026 )</b>				
NOVEMBER ( 23 days)	L4.The Adventure P5.Father to Son		G4. Reordering of sentences	

DECEMBER (19 days)	L5. Silk Road <b>(NOT TO BE INCLUDED FOR UT 2)</b>			W3. Advertisements (Classifieds) Automobile Missing Lost and Found Educational Institution Travel and Tours
<b>UNIT TEST II ( 14/12/2026 - 21/12/2026)</b>				
JANUARY ( 21 days)		L5. The Tale of Melon City	G5. Transformation of sentences	Debate
FEBRUARY ( 22 days )	<b>REVISION</b>			
<b>FINAL EXAMINATION (15/02/2027 -26/02/2027)</b>				

**BHARATIYA VIDYA BHAVAN, KOCHI****YEAR PLAN -2025-2026****STD :XI PHYSICS**

<b>MONTH</b>	<b>TOPIC</b>	<b>SUB-TOPICS</b>	<b>CONCEPTS</b>
<b>JUNE</b>	<b>CHAPTER 1- UNITS AND MEASUREMENT</b>  <b>CHAPTER 2- MOTION IN A STRAIGHT LINE</b>	Need for measurement: significant figures. Dimensions of physical quantities  Describing motion, Relations for uniformly accelerated motion (graphical treatment).	Need for measurement: Units of measurement; systems of units; SI units, fundamental and derived units. significant figures, Determining the uncertainty in result. Dimensions of physical quantities, dimensional analysis and its applications.  Frame of reference, Motion in a straight line, Elementary concepts of differentiation and integration for describing motion, uniform and non- uniform motion, average speed and average velocity and instantaneous velocity, uniformly accelerated motion, velocity - time and position-time graphs. Relations for uniformly accelerated motion (graphical and calculus treatment)

<p><b>JULY</b></p>	<p><b>MOTION IN A STRAIGHT LINE (CONTD ...)</b></p> <p><b>CHAPTER 3- MOTION IN A PLANE</b></p> <p><b>CHAPTER 4- LAWS OF MOTION(UPTO FRICTION)</b></p>	<p>Instantaneous velocity</p> <p>Scalar and vector quantities; Vector operations Resolution of vectors Motion in a plane, cases of uniform velocity and uniform acceleration projectile motion uniform circular motion</p> <p>Newton's first law of motion,Newton's second law of motion,Newton's third law of motion,conservation of linear momentum ,Equilibrium of concurrent forces</p>	<p>Scalar and vector quantities,position and displacement vectors,general vectors and notations ,equality of vectors,multiplication of vectors by a real number,unit vector,Addition and subtraction of vectors,Resolution of a vector in a plane, rectangular components, Scalar and vector product of vectors, Motion in a plane,cases of uniform velocity and uniform acceleration, Projectile motion,Uniform circular motion.</p> <p>Intuitive concept of force, Inertia, Newton's first law of motion. Momentum and Newton's second law of motion; impulse.Newton's third law of motion. Law of conservation of linear momentum and its applications.Equilibrium of concurrent forces.</p>
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**UNIT TEST 1 - July 25-Aug 2**  
**UNITS AND MEASUREMENT, MOTION**  
**IN A STRAIGHT LINE ,**  
**MOTION IN A PLANE UPTO PROJECTILE MOTION**  
**PROJECTILE MOTION NOT INCLUDED .**

<b>AUGUST</b>	<b>LAWS OF MOTION (CONT..)</b>	Friction	Static and kinetic friction,laws of friction, rolling friction, lubrication. Dynamics of uniform circular motion:Centripetal force, examples of circular motion (vehicle on a level circular road, vehicle on a banked road).
	<b>CHAPTER 5-WORK ENERGY AND POWER</b>	Work Energy Collision	Work done by a constant force and a variable force ,kinetic energy, work-energy theorem,power,Notion of potential energy,potential energy of a spring, conservative forces: non-conservative forces, motion in a vertical circle. Elastic and inelastic collisions in one and two dimensions.



<b>OCTOBER</b>	<b>CHAPTER 8- MECHANICAL PROPERTIES OF SOLIDS</b>	Elastic behaviour of solids, Modulus of Elasticity Elastic Energy	Elasticity, Stress-strain relationship, Hooke's law, Young's modulus, bulk modulus, shear modulus of rigidity(qualitative idea only), Poisson's ratio; elastic energy,Application of elastic behavior of materials (qualitative idea only).
<b>TERM END EXAMINATION I -(Oct 10-Oct 23)</b> <b>UNITS AND MEASUREMENT, MOTION IN A STRAIGHT LINE , MOTION IN A PLANE (14 Marks), LAWS OF MOTION , WORK ENERGY AND POWER &amp; SYSTEM OF PARTICLES AND ROTATIONAL MOTION</b>			

<b>NOVEMBER</b>	<b>CHAPTER 9- MECHANICAL PROPERTIES OF FLUIDS</b>	Pressure, Viscosity Surface tension, Capillary rise.	Pressure due to a fluid column; Pascal's law and its applications, (hydraulic lift and hydraulic brakes), Effect of gravity on fluid pressure. Viscosity, Stokes' law, terminal velocity, streamline and turbulent flow, critical velocity, Bernoulli's theorem and its simple applications (Torricelli's law and Dynamic lift). Surface energy and surface tension, Angle of contact, excess of pressure across a curved surface, Application of surface tension, Ideas to drops, bubbles, Capillary rise
	<b>CHAPTER 10 - THERMAL PROPERTIES OF MATTER</b>	Heat ,heat transfer, blackbody radiation	Heat, temperature, thermal expansion; thermal expansion of solids, liquids and gases, anomalous expansion of water; specific heat capacity; $C_p$ , $C_v$ - calorimetry; change of state - latent heat capacity. Heat transfer-conduction, convection and radiation, thermal conductivity, qualitative ideas of Blackbody radiation, Wein's displacement Law, Stefan's law .
	<b>CHAPTER 13 - OSCILLATIONS</b>	Periodic motion, simple harmonic motion energy in SHM	Periodic motion - time period, frequency, displacement as a function of time, periodic functions and their applications. Simple harmonic motion (S.H.M) uniform circular motion and its equations of motion; phase; oscillations of a loaded spring- restoring force and force constant; energy in

			S.H.M. Kinetic and potential energies; simple pendulum derivation of expression for its time period.
<b>DECEMBER</b>	<b>CHAPTER 14-WAVES</b>	Wave motion, reflection of waves	Wave motion: Transverse and longitudinal waves, speed of travelling wave, displacement relation for a progressive wave, principle of superposition of waves, Reflection of waves, standing waves in strings and organ pipes, fundamental mode and harmonics, Beats.
<b>UNIT TEST II (Dec 12-Dec 20)</b> <b>GRAVITATION</b> <b>MECHANICAL PROPERTIES OF SOLIDS &amp; MECHANICAL PROPERTIES OF FLUIDS INCLUDING BERNOULLI'S THEOREM</b>			
<b>JANUARY</b>	<b>CHAPTER 11-THERMODYNAMICS</b>	Zeroth law, first law, Second law and thermodynamical process.	Thermal equilibrium and definition of temperature, zeroth law of thermodynamics Heat, work and internal energy. First law of thermodynamics, Second law of Thermodynamics, Thermodynamic state variable and equation of state, gaseous state of matter, change of condition of gaseous state - isothermal, adiabatic, reversible, irreversible, and cyclic processes.

	<p><b>CHAPTER 12-KINETIC THEORY OF GASES</b></p>	<p>Equation of state of a perfect gas, Kinetic theory of gases, degrees of freedom</p>	<p>Equation of state of a perfect gas, work done in compressing a gas. Kinetic theory of gases assumptions, concept of pressure. Kinetic interpretation of temperature; rms speed of gas molecules; Degrees of freedom, Law of equi-partition of energy (statement only) and application to specific heat capacities of gases; concept of mean free path, Avogadro's number.</p>
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<p><b>FEBRUARY</b></p>	<p style="text-align: center;"><b>REVISION FINAL EXAMINATION (13Feb-25Feb) UNITS AND MEASUREMENT MOTION IN A STRAIGHT LINE &amp; MOTION IN A PLANE), LAWS OF MOTION , WORK ENERGY AND POWER , SYSTEM OF PARTICLES AND ROTATIONAL MOTION , GRAVITATION MECHANICAL PROPERTIES OF SOLIDS &amp; FLUIDS , THERMAL PROPERTIES OF MATTER &amp; THERMODYNAMICS , KINETIC THEORY OF GASES , OSCILLATIONS &amp; WAVES .</b></p>
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**BHARATIYA VIDYA BHAVAN, KOCHI**  
**YEAR PLAN FOR THE YEAR 2026-2027**  
**CLASS -XI**  
**SUBJECT -CHEMISTRY**

MONTH	TOPIC	SUB-TOPIC	CONCEPTS
JUNE	1.SOME BASIC CONCEPTS OF CHEMISTRY	<p>General Introduction:</p> <p>Importance and scope of Chemistry.</p> <p>Nature of matter, laws of chemical combination,</p> <p>Dalton's atomic theory: concept of elements, atoms and molecules.</p> <p>Atomic and molecular masses, mole concept and molar mass, percentage composition, empirical and molecular formula, chemical reactions, stoichiometry and calculations based on stoichiometry.</p>	<p>Laws of chemical combination- law of conservation of mass, law of definite proportion, law of multiple proportion Avogadro's law, Gay Lussac's law of gaseous volumes</p> <p>Dalton's atomic theory: concept of elements, atoms and molecules.</p> <p>Atomic and molecular masses, average atomic mass-mole concept and molar mass, percentage composition, empirical and molecular formula, chemical reactions, stoichiometry and calculations based on stoichiometry - concentration terms.</p>
JUNE-JULY	2. STRUCTURE OF ATOM	Discovery of Electron, Proton and Neutron, atomic number,	Subatomic particles, atomic number, mass number, isotopes, Isobars, Nucleus, Electromagnetic theory of radiations, particle nature of radiation,

		isotopes and isobars. Thomson's model and its limitations. Rutherford's model and its limitations, Bohr's model and its limitations, concept of shells and subshells, dual nature of matter and light, de Broglie's relationship, Heisenberg uncertainty principle, concept of orbitals, quantum numbers, shapes of s, p and d orbitals, rules for filling electrons in orbitals - Aufbau principle, Pauli's exclusion principle and Hund's rule, electronic configuration of atoms, stability of half-filled and completely filled orbitals.	black body radiations, photo electric effect, spectra, Bohr's postulates for hydrogen atom, negative energy of electron Dual nature of matter, orbits, orbitals, principal quantum number, azimuthal quantum number, magnetic quantum number, spin quantum number, n + l rule, nodes, nodal planes, electronic configuration of atoms, ions, stable configurations.
<b>UNIT TEST -I (JULY -27-AUGUST-3)</b> <b>PORTIONS</b> <b>1.SOME BASIC CONCEPTS OF CHEMISTRY (13 marks)</b> <b>2.STRUCTURE OF ATOM (12 marks)</b> <b>Numericals -7 marks</b>			
JULY -AUGUST	3.CLASSIFICATION OF ELEMENTS AND PERIODICITY IN PROPERTIES.	Significance of classification, brief history of the development of periodic table, modern periodic law and the present form of periodic table, periodic trends in properties of elements -	Dobernier's triads, Law of octaves, Mendeleev's law, Mendeleev's periodic table, Modern periodic law. Nomenclature of elements with atomic number greater than 100, Electronic configurations and types of elements-s, p, d, f blocks, Periodic trends in properties -Physical properties-atomic radii, ionic radii, inert gas radii, Ionization enthalpy, electron gain enthalpy, electronegativity, valency. Periodic trends in chemical properties -Periodicity

		atomic radii, ionic radii, inert gas radii, Ionization enthalpy, electron gain enthalpy, electronegativity, valency. Nomenclature of elements with atomic number greater than 100.	in valence or oxidation state, Anomalous properties of second period elements, Periodic trends in chemical reactivity.
AUGUST	s & p BLOCK ELEMENTS	s & p Block Elements Electronic configuration, atomic & Ionic radii, Ionization Enthalpy, Hydration Enthalpy and general trends in physical and chemical properties of s and p block elements across the periods and down the groups; unique behavior of the first element in each group	<b>NON-EVALUATIVE</b>
AUGUST - SEPTEMBER	4.CHEMICAL BONDING AND MOLECULAR STRUCTURE	Valence electrons, ionic bond, covalent bond, bond parameters, Lewis structure, polar character of covalent bond, covalent character of ionic bond, valence bond theory, resonance, geometry of covalent molecules, VSEPR theory, concept of hybridization, involving s, p and d orbitals and shapes of some simple molecules, molecular orbital theory of	Valence bond, Lewis structure, Octet rule, limitations of octet rule, formal charge, ionic bond, factors affecting ionic bond, lattice enthalpy, bond parameters-bond length, bond angle, bond energy, bond enthalpy, bond order, Resonance, canonical structures, resonance energy, resonance hybrid. Repulsion between electron pairs, shapes-linear, trigonal planar, tetrahedral, trigonal bipyramid, octahedral, bent, seesaw, square pyramidal, square planar, PE curve for the H <sub>2</sub> molecule formation, Non existence of He <sub>2</sub> molecule, Types of hybridisation sp, sp <sup>2</sup> , sp <sup>3</sup> , dsp <sup>2</sup> , d <sup>2</sup> sp <sup>3</sup> , atomic and molecular orbitals MO energy level diagram, Hydrogen bonding- definition, reason, consequences

		homonuclear diatomic molecules (qualitative idea only), Hydrogen bond.	
SEPTEMBER	GASEOUS STATE	Qualitative treatment of Gas laws-Ideal gas equation and deviations from it	<b>NON-EVALUATIVE</b>
OCTOBER - NOVEMBER	5.CHEMICAL THERMODYNAMICS	Concepts of System and types of systems, surroundings, work, heat, energy, extensive and intensive properties, state functions. First law of thermodynamics -internal energy and enthalpy, heat capacity and specific heat, measurement of $\Delta U$ and $\Delta H$ , Hess's law of constant heat summation, Enthalpy of bond dissociation, combustion, formation, atomization, sublimation, phase transition, ionization, solution and dilution. Second law of Thermodynamics (brief introduction) Introduction of entropy as a state function, Gibb's energy change for spontaneous and nonspontaneous processes, criteria for equilibrium. Third law of thermodynamics (brief introduction).	System, Surrounding, Open, Closed, Isolated system, Surroundings, work, heat, energy, extensive and intensive properties, state functions, Reversible, Irreversible process, Isothermal, adiabatic, isobaric, isochoric processes, First law of thermodynamics -internal energy and enthalpy, heat capacity and specific heat, measurement of $\Delta U$ and $\Delta H$ , Hess's law of constant heat summation Enthalpy of bond dissociation, combustion, formation, atomization, sublimation, phase transition, ionization, solution and dilution. Entropy, Second law of Thermodynamics, Gibb's energy change for spontaneous and non-spontaneous processes, criteria for equilibrium. Third law of thermodynamics.

<b>TERM END EVALUATION -I (SEPTEMBER 28-OCTOBER 9)</b> <b>PORTIONS</b> <b>1.SOME BASIC CONCEPTS OF CHEMISTRY (15 marks)</b> <b>2.STRUCTURE OF ATOM(18 marks)</b> <b>3. CLASSIFICATION OF ELEMENTS AND PERIODICITY IN PROPERTIES.(17marks)</b> <b>4. CHEMICAL BONDING AND MOLECULAR STRUCTURE (20marks)</b> <b>Numericals -12 marks</b> <b>TOTAL=70 marks</b>			
NOVEMBER	6.EQUILIBRIUM	Equilibrium in physical and chemical processes, dynamic nature of equilibrium, law of mass action, equilibrium constant, factors affecting equilibrium - Le Chatelier's principle, ionic equilibrium-ionization of acids and bases, strong and weak electrolytes, degree of ionization, ionization of poly basic acids, acid strength, concept of pH, hydrolysis of salts (elementary idea),buffer solution, Henderson Equation, solubility product, common ion effect (with illustrative examples).	Reversible process, physical and chemical equilibrium, law of mass action, law of equilibrium, expression of equilibrium constant, characteristics of equilibrium constant, factors affecting equilibrium constant - pressure, temperature, concentration, presence of catalyst .Lechatelier's principle Electrolyte, strong and weak electrolyte, Ostwald's dilution law, degree of ionisation, poly basic acids, $K_a$ value acid strength, pH, pOH, $P_{kw}$ , hydrolysis of salts, buffer solution, buffer action, Henderson equation, solubility, solubility product, common ion effect

DECEMBER	7.REDOX REACTIONS	Concept of oxidation and reduction, redox reactions, oxidation number, balancing redox reactions, in terms of loss and gain of electrons and change in oxidation number, applications of redox reactions	Concept of oxidation and reduction, redox reactions, oxidation number, types of redox reaction, balancing redox reactions, in terms of loss and gain of electrons and change in oxidation number, applications of redox reactions.
<b>UNIT TEST -II (DECEMBER 14-21)</b> <b>PORTIONS</b> <b>5.CHEMICAL THERMODYNAMICS-(12 marks)</b> <b>6.EQUILIBRIUM –(13 marks)</b> <b>Numericals -7 marks</b>			
JANUARY	8.ORGANIC CHEMISTRY - SOME BASIC PRINCIPLES AND TECHNIQUES	General introduction, methods of purification, qualitative and quantitative analysis, classification and IUPAC nomenclature of organic compounds. Electronic displacements in a covalent bond: inductive effect, electromeric effect, resonance and hyper conjugation. Homolytic and heterolytic fission of a covalent bond: free radicals, carbocations, carbanions, electrophiles and nucleophiles,	Tetravalency of carbon, classification of organic compounds, IUPAC naming, functional group, homologous series, inductive effect, electromeric effect, resonance and hyper conjugation or no bond resonance, Stability of carbocations, free radicals, classification of intermediates in to electrophiles and nucleophiles, Purification methods - crystallisation, sublimation, distillation, fractional distillation, distillation under reduced pressure, steam distillation, Lassaigne's test, Dumas method, Kjeldahl's method.

		types of organic reactions.	
JANUARY	9.HYDROCARBONS	<p>Classification of Hydrocarbons Aliphatic Hydrocarbons:</p> <p>Alkanes - Nomenclature, isomerism, conformation (ethane only), physical properties, chemical reactions including free radical mechanism of halogenation, combustion and pyrolysis.</p> <p>Alkenes - Nomenclature, structure of double bond (ethene), geometrical isomerism, physical properties, methods of preparation, chemical reactions: addition of hydrogen, halogen, water, hydrogen halides (Markovnikov's addition and peroxide effect), ozonolysis, oxidation, mechanism of electrophilic addition.</p> <p>Alkynes - Nomenclature, structure of triple bond (ethyne), physical properties, methods of preparation, chemical reactions: acidic</p>	<p>Hydrocarbons, classification of hydrocarbons, IUPAC nomenclature, physical and chemical properties, catalytic reduction, free radical halogenation, combustion, Reforming, aromatisation, pyrolysis, Markovnikov's law, peroxide effect, ozonolysis, polymerisation, acidic character of alkynes, addition reactions, resonance, aromaticity, Huckel's rule, electrophilic substitution, Arenium ion, addition reactions by benzene, directing influence, Carcinogenicity and toxicity</p>

		character of alkynes, addition reaction of - hydrogen, halogens, hydrogen halides and water. Aromatic Hydrocarbons: Introduction, IUPAC nomenclature, benzene: resonance, aromaticity, chemical properties: mechanism of electrophilic.	
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**ANNUAL EXAMINATION-70 marks**

**15/02/2027 TO 26/02/2027 (ALL PORTIONS :40% of TERM I & 60% )**

**1. Some basic concepts of chemistry - 6 marks**

**2. Structure of atom - 7 marks**

**3. Classification of elements and periodicity in properties- 7 marks**

**4. Chemical bonding and molecular structure - 8 marks**

**5. Chemical thermodynamics - 5 marks**

**6. Equilibrium- 6 marks**

**7. Redox reactions- 7 marks**

**8. Organic chemistry - Some basic principles and techniques - 11 marks**

**9. Hydrocarbons - 13 marks**

**BHARATIYA VIDYA BHAVAN, KOCHI KENDRA**

**STD XI – BOTANY – YEAR PLAN**

**2026-2027**

<b>MONTH</b>	<b>TOPIC</b>	<b>SUB TOPICS</b>	<b>CONCEPTS</b>
<b>JUNE</b>	1. THE LIVING WORLD  2. BIOLOGICAL CLASSIFICATION	1.1 Diversity in the living world  1.2 Taxonomic Categories  2.1 Kingdom Monera 2.2 Kingdom Protista 2.3 Kingdom Fungi	Characteristics of Living things. Taxonomic Hierarchy Binomial nomenclature. <b>Figure 1.1 and Table 1.1 to be included for evaluation.</b> Salient features of five kingdom classification Salient features of five major kingdom with examples.
<b>JULY</b>	2. BIOLOGICAL CLASSIFICATION CONTD .....  3. PLANT KINGDOM	2.4 Kingdom Plantae 2.5 Kingdom Animalia 2.6 Viruses, Viroids, Prions and Lichens  3.1 Algae 3.2 Bryophytes 3.3 Pteridophytes	<b>Figure 2.2, 2.3, 2.4 (b&amp;d), 2.6 (b) to be included for evaluation.</b>  Salient features of plant kingdom. Salient features of various divisions of plant kingdom with examples. <b>Figure 3.1(a-i &amp; b-ii), Table 3.1 and Figure (3.2 a,b&amp;c) to be included for evaluation.</b>
<b>AUGUST</b>	3. PLANT KINGDOM CONTD....  5. MORPHOLOGY OF FLOWERING PLANTS. Description of one family Solanaceae (To be dealt along with the relevant experiments of the practical syllabus)	3.4 Gymnosperm 3.5 Angiosperms  5.1 The Root 5.2 The Stem 5.3 The Leaf 5.4 The Inflorescence 5.5 The Flower	Taproot, fibrous and adventitious root system. Region of the root, The stem, The leaf, parts of leaf, venation, Types of leaf, Phyllotaxy, The inflorescence. The flower, Parts of a flower, Androecium, Gynoecium.
<b>UNIT TEST I Portions (JULY 27 th TO AUGUST 3rd) Living world, Biological classification, Plant Kingdom (up to 3.3 Pteridophytes included) CHAPTERS 1,2 &amp; 3 (upto 3.3-included)</b>			
<b>SEPTEMBER</b>	5. MORPHOLOGY OF FLOWERING PLANTS. CONTD.....  6. ANATOMY OF FLOWERING PLANTS.	5.6 The Fruit 5.7 The Seed 5.8 Semi-technical Description of a Typical Flowering Plant. 5.9 Solanaceae  6.1 The Tissue System	Parts of fruits Parthenocarpic fruit Structure of Monocotyledonous and Dicotyledonous seed Floral symbols, diagram and Floral formula Description of Vegetative and floral features of Plant Family - Solanaceae <b>Figure 5.3, Figure 5.4 (a), Figure 5.5(a&amp;b), Figure 5.6(a,b&amp;c), Figure 5.9, Figure 5.11(Diagrammatic representation only), Figure 5.12, 5.14, 5.15, 5.16&amp;Figure 5.17 to be included for evaluation.</b>  Epidermal tissue system Ground tissue system Vascular tissue system . <b>Figure 6.1, Figure 6.2(a,b&amp;c) to be included for evaluation.</b>
<b>OCTOBER</b>	6. ANATOMY OF FLOWERING PLANTS. CONTD..  10. CELL CYCLE AND CELL DIVISION.	6.2 Anatomy of Dicotyledonous and Monocotyledonous Plants.  10.1 Cell Cycle 10.2 M Phase 10.3 Significance of Mitosis	Dicotyledonous root, Monocotyledonous root, Dicotyledonous stem, Monocotyledonous stem, Dorsiventral leaf and Isobilateral leaf.  Various stages of mitosis and its significance.

<b>TERM END EVALUATION I [SEPTEMBER 28th TO OCTOBER 9th] Portions Living world , Biological classification , Plant Kingdom, Morphology of flowering plants. CHAPTERS 1,2,3 &amp; 5</b>			
<b>NOVEMBER</b>	10. CELL CYCLE AND CELL DIVISION. CONTD...  11. PHOTOSYNTHESIS IN HIGHER PLANTS.	10.4 Meiosis 10.5 Significance of Meiosis  11.1 What do we Know? 11.2 Early Experiments 11.3 Where does Photosynthesis take place? 11.4 How many Pigments are involved in Photosynthesis? 11.5 What is Light Reaction? 11.6 The Electron Transport	Various stages of meiosis and its significance. <b>Figure 10.1,10.2(a,b,c&amp;d).Figure 10.3&amp;10.4 to be included for evaluation</b>  Early experiments in Photosynthesis. Structure of chloroplast. Action and Absorption spectrum in Photosynthesis. Light Reaction-Cyclic and Non cyclic photophosphorylation. Chemiosmotic hypothesis.
<b>DECEMBER</b>	11. PHOTOSYNTHESIS IN HIGHER PLANTS. CONTD...  12. RESPIRATION IN PLANTS	11.7 Where are the ATP and NADPH Used? 11.8 The C4 Pathway 11.9 Photorespiration 11.10 Factors affecting Photosynthesis  12.1 Do Plants Breathe? 12.2 Glycolysis 12.3 Fermentation 12.4 Aerobic Respiration	The Calvin cycle, Kranz Anatomy-C4 Pathway Photorespiration Factors affecting Photosynthesis-Law of limiting factors. <b>Figure 11.5,11.6,11.7,11.8,11.9&amp;11.10 to be included for evaluation</b>  Cellular respiration Steps of glycolysis. Major pathways of anaerobic respiration The citric acid cycle. Electron transport system and Oxidative Phosphorylation
<b>DECEMBER</b>	<b>UNIT TEST II [DECEMBER 14th TO DECEMBER 21st] PORTIONS CHAPTERS 6 &amp;10 Anatomy of flowering plants and Cell cycle and Cell division</b>		
<b>JANUARY</b>	12..RESPIRATION IN PLANTS. CONTD...  13. PLANT GROWTH AND DEVELOPMENT.	12.5 The Respiratory Balance Sheet 12.6 Amphibolic Pathway 12.7 Respiratory Quotient  13.1 Growth 13.2 Differentiation, Dedifferentiation and Redifferentiation 13.3 Development	The Respiratory Balance Sheet Amphibolic Pathway Respiratory Quotient. <b>Figure 12.1,12.2,12.3,12.4,12.5&amp;12.6 to be included for evaluation</b>  Characteristics of growth. Phases of growth. Growth Rates. Conditions of Growth
<b>FEBRUARY</b>	13. PLANT GROWTH AND DEVELOPMENT CONTD...	13.4 Plant Growth Regulators	Characteristic and discovery of Plant growth regulators. Role of various Growth Regulators -Auxin,Gibberlin, Cytokinin,Ethylene and Abscissic acid <b>Figure 13.4,13.6,13.7,13.8&amp;13.9 to be included for evaluation</b>
<b>FINAL EXAMINATION [FEBRUARY 15 th TO FEBRUARY 26 th] FULL PORTIONS CHAPTERS 1,2,3,5,6,10,11,12&amp;13</b>			

**BHARATIYA VIDYA BHAVAN, KOCHI**  
**STD XI ZOOLOGY YEAR PLAN FOR THE ACADEMIC YEAR 2026-27**

MONTH	TOPIC	SUB TOPICS	CONCEPTS
JUNE	CHAPTER 4 ANIMAL KINGDOM	4.1 Levels of Organisation 4.2 Classification of animals 4.2.11 Phylum Chordata	4.1.1 Levels of organisation 4.1.2 Symmetry 4.1.3 Diploblastic and Triploblastic organisation 4.1.4 Coelom 4.1.5 Segmentation 4.1.6 Notochord 4.2.3 Ctenophora 4.2.4 Platyhelminthes 4.2.5 Aschelminthes 4.2.6 Annelida 4.2.7 Arthropoda 4.2.8 Mollusca 4.2.9 Echinodermata 4.2.10 Hemichordata 4.2.11. (1,2,3) Class Pisces 4.2.11.4 Class Amphibia 4.2.11.5 Class Reptilia 4.2.11.6 Class Aves 4.2.11.7 Class Mammalia FOR EVALUATION Fig 4.2,4.3,4.16 For Drawing Other Figures can be included for Identification Questions
	CHAPTER 7 STRUCTURAL ORGANISATION IN ANIMALS	7.1 ORGAN AND ORGAN SYSTEM-FROG	7.2.1 Morphology
JULY	CHAPTER 7 STRUCTURAL ORGANISATION IN ANIMALS Cont..	7.1 ORGAN AND ORGAN SYSTEM-FROG	7.2.2 Anatomy Fig 7.2,7.3,7.4 For Identification and labelling only not for drawing

	CHAPTER 8 CELL- THE UNIT OF LIFE	<p>What is a Cell? An overview of cells. Cell theory          Prokaryotic cells          8.5 Eukaryotic cells</p>	<p>Different parts of a cell.          Differences between a prokaryotic and eukaryotic cell. Modification of cell theory by Rudolf Virchow.          Cell Envelope and its Modifications.          Ribosomes and Inclusion bodies          8.5.1 Cell Membrane          Fig 8.4 for evaluation          8.5.2 Cell Wall          8.5.3 Endomembrane System          8.5.4 Mitochondria          Fig 8.7 for evaluation          8.5.5 Plastids          Fig 8.8 for evaluation          8.5.6 Ribosomes          8.5.7 Cytoskeleton          8.5.8 Cilia and Flagella          8.5.9 Centrosome and Centrioles          8.5.10 Nucleus          Fig 8.12, 8.13 for evaluation          8.5.11 Microbodies</p>
	CHAPTER 9 BIOMOLECULES Cont.....	<p>9.1 How to Analyse Chemical Composition?          (For Evaluation- Page - 106-lipids and nucleic acids only)          9.2 Primary and Secondary Metabolites</p>	<p>Chemical composition of living tissues          Primary and Secondary Metabolites</p>
<p><b>UNIT TEST -I (July 27th - August 3rd)</b>  <b>CHAPTER 4 ANIMAL KINGDOM</b></p>			

AUGUST	CHAPTER 9 BIOMOLECULES Cont.....	9.3 Biomacromolecules 9.4 Proteins 9.5 Polysaccharides 9.6 Nucleic Acids 9.7 Structure of Proteins 9.8 Enzymes	Biomacromolecules and micromolecules Structure of proteins Table 9.5 for Evaluation Homo and hetero polysaccharides Fig 9.2 Not For Evaluation Nucleosides and Nucleotides Types of proteins Fig 9.3 Not For Evaluation 9.8 Enzymes 9.8.2 How do enzymes bring about such high rates of chemical conversions? Fig 9.4 For Evaluation 9.8.3 Nature of Enzyme action 9.8.4 Factors affecting Enzyme Activity Fig 9.5 For Evaluation 9.8.5 Classification and Nomenclature of Enzymes 9.8.6 Co factors.
	CHAPTER 14 BREATHING AND EXCHANGE OF GASES	Respiratory Organs and Human respiratory system. Mechanism of breathing , Respiratory Volumes and Capacities. Exchange and transport of Gases Regulation of Respiration Disorders of Respiratory System	Respiratory organs in animals (recall only). 14.1 Not For Evaluation Structure of human respiratory system. Inspiration and Expiration. TV , IRV , ERV, RV, IC, EC , FRC , TLC Partial pressure of Oxygen , Carbondioxide and pressure gradient Transport of Oxygen Transport of Carbon dioxide  Fig 14.4 for labelling , 14.5 for evaluation Role of respiratory rhythm centre Asthma , Emphysema and Occupational respiratory disorders.

SEPTEMBER	CHAPTER15-BODY FLUIDS AND CIRCULATION	15.1 Blood 15.2 Lymph 15.3 Circulatory Pathways 15.4 Double circulation 15.5 Regulation of Cardiac activity 15.6 Disorders of circulatory system	15.1.1 Plasma 15.1.2 Formed elements 15.1.3 Blood groups 15.1.4 Coagulation of blood 15.2 Formation and functions of lymph 15.3.1 Human Circulatory system 15.3.2 Cardiac cycle 15.3.3 ECG Pulmonary circulation, Systemic circulation Neural and hormonal control High Blood Pressure, CAD, Angina, Heart failure
	CHAPTER -16- EXCRETORY PRODUCTS AND THEIR ELIMINATION	16.1 Human Excretory System	Structure of kidneys and nephron  Fig 16.2 for labelling
	<b>TERM END EVALUATION 1 (SEP 28th-OCT9th)</b> <b>CHAPTER 4 ANIMAL KINGDOM,</b> <b>7 STRUCTURAL ORGANISATION IN ANIMALS,</b> <b>8 CELL- THE UNIT OF LIFE AND</b> <b>9 BIOMOLECULES</b>		
OCTOBER	CHAPTER16- EXCRETORY PRODUCTS AND THEIR ELIMINATION CONTINUED....	16.2 Urine Formation 16.3 Function of the tubules" 16.4 Mechanism of concentration of the filtrate 16.5 Regulation of kidney function 16.6 Micturition 16.7 Role of other organs in excretion 16.8 Disorders of the excretory system	Glomerular filtration, selective reabsorption and tubular secretion" Role of PCT, Henle's loop, DCT and Collecting duct Countercurrent mechanism Role of ADH, Renin-Angiotensin mechanism, ANF Process of urination Expulsion of Co <sub>2</sub> and sweat through lungs and skin respectively. Renal calculi, uremia, nephritis, dialysis and artificial kidney, kidney transplant
	CHAPTER 17- LOCOMOTION AND MOVEMENT	17.1 Types of Movement 17.2 Muscle	Ciliary , flagellar, amoeboid and muscular Types of muscles

NOVEMBER	CHAPTER 17- LOCOMOTION AND MOVEMENT CONTINUED..	17.2 Muscle 17.3 Skeletal System 17.4 Joints 17.5 Disorders of Muscular and Skeletal System	17.2.1 Structure of Contractile Proteins Fig 17.3 , 17.4 for Identification and Labelling 17.2.2 Mechanism of Muscle Contraction Axial and Appendicular Types of joints Gout , Myasthenia gravis , Tetany , Muscular dystrophy , Arthritis , Osteoporosis
	CHAPTER 18 - NEURAL CONTROL AND COORDINATION	18.1 Neural System 18.2 Human Neural System 18.3 Neuron 18.3.1 Generation and conduction of nerve impulse	Neural system in different animals. CNS,PNS,afferent and efferent fibres Structure of neuron Generation and conduction of nerve impulse
DECEMBER	CHAPTER 18 - NEURAL CONTROL AND COORDINATION cond..	18.3.2 Transmission Of Impulses 18.4 Central Nervous System	Transmission Of Impulses 18.4.1 Forebrain 18.4.2 Midbrain 18.4.3 Hindbrain
	<b>UNIT TEST II -DECEMBER (14 th - 21th) CHAPTER- 14 BREATHING AND EXCHANGE OF GASES, CHAPTER15-BODY FLUIDS AND CIRCULATION</b>		
JANUARY	CHAPTER-19 CHEMICAL COORDINATION AND INTEGRATION	19.1Endocrine glands and hormone 19.2Human Endocrine System 19.4 Mechanism of Hormone action	Hormones Major endocrine glands - 19.2.1 Hypothalamus 19.2.2 Pituitary gland 19.2.3 Pineal gland 19.2.4 Thyroid gland 19.2.5 Parathyroid gland 19.2.7 Adrenal gland 19.2.8 Pancreas 19.2.9 Testis 19.2.10 Ovary Types of hormones,mechanism of action of protein and steroid hormones.
FEBRUARY	<b>REVISION FINAL EXAMINATION FEB 15th - 26th, FULL PORTIONS</b>		

**BHARATIYA VIDYA BHAVAN, KOCHI KENDRA**  
**YEAR PLAN FOR THE ACADEMIC YEAR 2026-2027**  
**COMPUTER SCIENCE (083)**

**CLASS : XI**

<b>MONTH</b>	<b>TOPIC</b>	<b>SUB-TOPICS</b>	<b>CONCEPTS</b>
<b>JUNE</b>	Unit II: Computational Thinking and Programming - 1 (Getting Started with Python)	Getting Started with Python	Introduction to problem solving and basics of Python programming , Different Types of data , Operators, Expressions, Errors
<b>JULY</b>	Unit II: Computational Thinking and Programming - 1	Getting Started with Python -Flow of control (conditional statements)	Flow of control (conditional statements)
<b>UNIT TEST I</b> 27/07/2026 TO 03/08/2026 [25 MARKS 80 MINUTES]		<b>PORTIONS:</b> Introduction to problem solving and basics of Python programming Different Types of data , Operators, Expressions, Errors Flow of control (conditional statements)	
<b>AUGUST</b>	Unit II: Computational Thinking and Programming - 1	Flow of control (Iterative statements), List	Iterative statements List
<b>SEPTEMBER</b>	Unit II: Computational Thinking and Programming - 1 (Tuple)	Tuple	Tuple

<p align="center"><b>TERM END EXAMINATION</b>  <b>28/9/2026 TO 9/10/2026</b>  <b>[70 MARKS 3 HOURS]</b></p>		<p align="center"><b>PORTIONS:</b>  Introduction to Problem Solving, Basics of Python programming  Different Types of data, Operators &amp; Expressions, Errors  Flow of control  List, Tuple</p>	
<b>OCTOBER</b>	Unit II: Computational Thinking and Programming - 1 (String)	String	String
<b>NOVEMBER</b>	Unit II: Computational Thinking and Programming - 1 (Dictionary)	Dictionary	Dictionary
<p align="center"><b>UNIT TEST II</b>  <b>14/12/2026 TO 21/12/2026</b>  <b>[25 MARKS 80 MINUTES]</b></p>		<p align="center"><b>PORTIONS : Strings, Dictionary</b></p>	
<b>DECEMBER</b>	Unit II: Computational Thinking and Programming - 1	Modules in Python	Python Modules
<b>JANUARY</b>	Unit 1 -Computer Systems and Organisation Unit 3- Society, Law and Ethics	Computer Systems and Organisation- Boolean logic & Number System , Society, Law and Ethics	Computer Systems and Organisation- Boolean Logic,Number system Society, Law and Ethics
<b>FEBRUARY</b>	<b>Revision and Practical Exam</b>		

**FINAL EXAMINATION**  
**15/02/2027 TO 26/02/2027**  
**[70 MARKS 3 HOURS]**

**PORTIONS :**

Introduction to problem solving and basics of Python programming, Different Types of data,  
Operators, Expressions, Errors  
Flow of control, List, Tuple, Strings, Dictionary, Modules , Boolean logic & Number System ,  
Society, Law and Ethics

**BHARATIYA VIDYA BHAVAN, KOCHI KENDRA****YEAR PLAN FOR THE ACADEMIC YEAR 2026-2027****STD XI - MATHEMATICS (041)**

<b>MONTH</b>	<b>UNIT</b>	<b>TOPIC</b>	<b>SUB TOPICS</b>	<b>CONCEPTS</b>
JUNE	1	<b>SETS</b>	Introduction Sets and their representations Empty set Finite and Infinite sets Equal Sets Subsets Intervals as subsets of R Universal set Operations on sets Complement of a set	Sets and their representations. Empty set, Finite and Infinite sets, Equal sets, Subsets, Subsets of a set of real numbers especially intervals (with notations), Universal set, Venn diagrams, Union and Intersection of sets, difference of sets, complement of sets, properties of complement.
	2	<b>RELATIONS AND FUNCTIONS</b>	Introduction Cartesian product of sets Relations Functions	Ordered pairs , Cartesian product of the sets, Number of elements in the cartesian product of two finite sets, Cartesian product of the set of reals with itself ( $R \times R \times R$ ). Definition of relation, pictorial diagrams, domain, co-domain and range of a relation. Function as a special type of relation. Pictorial representation of a function, domain, co-domain and range of a function. Real valued functions, domain and range of these functions, constant, identity, polynomial, rational, modulus, signum, exponential, logarithmic and greatest integer functions with their graphs. Sum, difference, product and quotient of functions.

JULY	4	<b>COMPLEX NUMBERS &amp; QUADRATIC EQUATIONS</b>	Introduction Complex numbers Algebra of complex numbers Argand plane	Need for complex numbers, especially $\sqrt{-1}$ to be motivated by inability to solve some of the quadratic equations. Algebraic properties of complex numbers. Argand plane.
<b>UNIT TEST- I (JULY 27 -AUGUST 3)</b> <b>(Chapters - 1, 2 &amp; 4)</b>				
JULY	5	<b>LINEAR INEQUALITIES</b> <b>(NOT FOR UT1)</b>	Introduction Inequalities Algebraic solutions of linear inequalities in one variable	Linear inequalities. Algebraic solutions of linear inequalities in one variable and their representation on the number line.
AUGUST	3	<b>TRIGONOMETRIC FUNCTIONS</b>	Introduction Angles Trigonometric functions Trigonometric functions of sum and difference of some angles	Positive and negative angles. Measuring angles in radians and in degrees and conversion from one measure to another. Definition of trigonometric functions with the help of unit circle. Truth of the trigonometric identity $\sin^2x + \cos^2x = 1$ , for all $x$ . Signs of trigonometric functions. Domain and range of trigonometric functions and their graphs. Expressing $\sin(x \pm y)$ and $\cos(x \pm y)$ in terms of $\sin x$ , $\sin y$ , $\cos x$ & $\cos y$ and their simple applications. Deducing the identities of $\tan(x+y)$ , $\tan(x-y)$ , $\cot(x+y)$ , $\cot(x-y)$ , $\sin x + \sin y$ , $\sin x - \sin y$ , $\cos x + \cos y$ , $\cos x - \cos y$ . Identities related to $\sin 2x$ , $\cos 2x$ , $\tan 2x$ , $\sin 3x$ , $\cos 3x$ and $\tan 3x$ .

SEPTEMBER	8	<b>SEQUENCES AND SERIES</b>	Introduction Sequences Series Arithmetic Mean Geometric progression Relationship between AM and GM	Sequences & Series, Arithmetic Mean (A.M.) Geometric Progression (GP), general term of a G.P, sum of first n terms of a G.P., infinite G.P. and its sum, geometric mean (G.M.), relation between A.M. and G.M.
<b>TERM END EVALUATION (SEPT 28 – OCT 9)</b> <b>(Chapters - 1, 2, 3, 4, 5 &amp; 8)</b>				
OCTOBER	6	<b>PERMUTATIONS &amp; COMBINATIONS</b>	Introduction Fundamental principle of counting	Fundamental principle of counting. Factorial n. (n!) Permutations and combinations, derivation of formula for $nPr$ and $nCr$ and their connections, simple applications.
OCTOBER	7	<b>BINOMIAL THEOREM</b>	Introduction Binomial theorem for positive integral indices	Historical perspective, statement and proof of the binomial theorem for positive integral indices., Pascal's triangle, simple applications.
NOVEMBER	9	<b>STRAIGHT LINES</b>	Introduction Slope of a Line Various forms of the equation of a line Distance of a point from a line	Brief recall of two dimensional geometry from earlier classes, Slope of a line and angle between two lines. Various forms of equations of a line: parallel to axis, point- slope form, slope intercept form, two-point form, intercept form. Distance of a point from a line.

NOVEMBER	11	<b>INTRODUCTION TO THREE DIMENSIONAL GEOMETRY</b>	Introduction Coordinate axes and coordinate planes in 3-dimensional space Coordinates of a point in space Distance between two points Section formula	Coordinate axes and coordinate planes in three dimensions. Coordinates of a point. Distance between two points
NOVEMBER	10	<b>CONIC SECTIONS (NOT FOR UNIT TEST II)</b>	Introduction Sections of a cone Circle Parabola Ellipse	Sections of a cone: circle, ellipse, parabola, hyperbola, a point, a straight line and a pair of intersecting lines as a degenerated case of a conic section. Standard equations and simple properties of parabola, ellipse and hyperbola. Standard equation of a circle.
<b>UNIT TEST- II (DEC 14 – DEC 21) (Chapters – 6,7, 9 &amp; 11)</b>				
DECEMBER	12	<b>LIMITS AND DERIVATIVES (NOT FOR UNIT TEST II)</b>	Introduction Intuitive idea of derivatives Limits Limits of Trigonometric functions Derivatives	Derivative introduced as rate of change both as that of distance function and geometrically. Intuitive idea of limit. Limits of polynomials and rational functions. Limits of trigonometric, exponential and logarithmic functions. Definition of derivative, relate it to slope of tangent of the curve, derivative of sum, difference, product and quotient of functions. Derivatives of polynomial and trigonometric functions.

JANUARY	13	<b>STATISTICS</b>	Introduction Measures of dispersion Range Mean deviation Variance and Standard deviation	Measures of dispersion: Range, mean deviation, variance and standard deviation of ungrouped/grouped data
JANUARY	14	<b>PROBABILITY</b>	Introduction Random experiments Event Axiomatic approach to probability	Events, occurrence of events, 'not', 'and' and 'or' events, exhaustive events, mutually exclusive events, Axiomatic (set theoretic) probability, connections with other theories of earlier classes, probability of an event , probability of 'not' , 'and' and 'or' events.
FEBRUARY	<b>REVISION</b>  <b>FINAL EXAMINATION (FEB 15 – FEB 26)</b> <b>ALL CHAPTERS</b>			

**BHARATIYA VIDYA BHAVAN, KOCHI KENDRA  
INFORMATICS PRACTICES(065)  
YEAR PLAN FOR THE ACADEMIC YEAR 2026-2027**

**CLASS: XI**

MONTH	TOPIC	SUB-TOPICS	CONCEPTS
<b>JUNE</b>	Unit: 2 Introduction to Python	Basics of Python programming, execution modes: - interactive and script mode, the structure of a program, indentation, identifiers, keywords, constants, variables, types of operator, precedence of operators, data types, mutable and immutable data types, statements, expression evaluation. comments, input and output statements, data type conversion, debugging.	Python IDE, Python Tokens, Data types, Expressions, Statements, Input and Output, Debugging
<b>JULY</b>	Unit: 2 Introduction to Python	Control Statements: if-else, if-elif-else, while loop	Concept of conditional statement Concept of Iteration
<b>UNIT TEST 1 ( 27/07/2026 - 03/08/2026) MARKS: 25</b> <b>TOPICS- Basics of Python programming, Selection statements(loops not included for the exam)</b>			
<b>AUGUST</b>	Unit: 2 Introduction to Python	Control Statements: for loop Lists: list operations - creating, initializing, traversing and manipulating lists	Concept of Iteration Concept of List
<b>SEPTEMBER</b>	Unit: 2 Introduction to Python	list methods and built-in functions – len(),list(),append(),insert(), count(),index(),remove(), pop(), reverse(), sort(), min(),max(),sum()	Concept of List Concepts of Dictionary : Key-value pair

**TERM END EVALUATION (28/9/2026 - 09/10/2026) MARKS: 70**

**TOPICS- Basics of Python programming, Control statements, Lists**

OCTOBER	Unit: 2 Introduction to Python	<p>Dictionary: concept of key-value pair, creating, initializing, traversing, Updating and deleting elements in a Dictionary</p> <p>Dictionary: dictionary methods and built-in functions – dict(), len(), keys(), values(), items(), update(), del(), clear()</p>	Concept of Dictionary methods and built-in functions.
NOVEMBER	Unit 2: Introduction to Python	<p>Introduction to NumPy: Introduction, Creation of 1-D NumPy Arrays from List</p> <p>Database Concepts: Introduction to database concepts and its need, Database Management System.</p> <p>Relational data model: Concept of domain, tuple, relation, candidate key, primary key, alternate key, Advantages of using Structured Query Language, Data Definition Language, Data Query Language and Data Manipulation Language</p>	Concept of Numpy
	Unit 1 Introduction to Computer System	<p><b>(Not included for exam)</b></p> <p>Introduction to computer and computing: evolution of computing devices, components of a computer system and their interconnections, Input/output devices.</p> <p>Computer Memory: Units of memory, types of memory – primary and secondary, data deletion, its recovery and related security concerns. Software: purpose and types – system and application software, generic and specific purpose software.</p>	Concepts of Computer System

<b>DECEMBER</b>	Unit 3: Database concepts and the Structured Query Language	Introduction to MySQL, creating a database using MySQL, Data Types Data Definition: CREATE DATABASE, CREATE TABLE, DROP, ALTER Data Query: SELECT (introduction)	Concept of Database and Structured query language, Data types in MySQL, SQL for data definition
<b>UNIT TEST 2 ( 14/12/2026 - 21/12/2026) MARKS: 25</b> <b>TOPICS- Dictionary built in functions, Introduction to NumPy, Database concepts and the Structured Query Language ,Introduction to creating database, creating tables, drop , alter) [Data Query- select excluded]</b>			
<b>JANUARY</b>	Unit 3: Database concepts and the Structured Query Language	Data Query: SELECT, FROM, WHERE with relational operators, BETWEEN, logical operators, IS NULL, IS NOT NULL Data Manipulation: INSERT, DELETE, UPDATE	Data insertion, Data Updation and Deletion
	Unit 4: Introduction to the Emerging Trends	Artificial Intelligence, Machine Learning, Natural Language Processing, Immersive experience (AR, VR), Robotics, Big data and its characteristics, Internet of Things (IoT), Sensors, Smart cities, Cloud Computing and Cloud Services (SaaS, IaaS, PaaS); Grid Computing, Block chain technology.	Artificial Intelligence, Big data and its characteristics, IOT, Cloud Computing and Cloud Services
<b>FINAL EXAMINATION (15/02/2027 - 26/02/2027) MARKS : 70</b> <b>TOPICS- Introduction to Python programming, Database concepts and the Structured Query, Introduction to the emerging trends</b>			

**BHARATIYA VIDYA BHAVAN, KOCHI**

**YEAR PLAN FOR THE ACADEMIC YEAR 2026-2027**

**STD XI ECONOMICS**

<b>MONTH</b>	<b>TOPIC</b>
JUNE	1. Introduction to Statistics
	1. Introduction to Micro Economics
	2. Collection of data
JULY	2. Consumer's Equilibrium
	3. Organization of data
AUGUST	4. Demand
	4. Presentation of Data
SEPTEMBER	5. Measures of central tendency: mean (simple), median and mode
	5. Producer Behaviour and Supply (Cost, Revenue & Production Fn)
OCTOBER / NOVEMBER	6. Producer Behaviour and Supply (Producers equilibrium & SS)
NOVEMBER	6. Correlation

DECEMBER	7. Introduction to Index numbers
JANUARY	7. Perfect Competition - Price Determination and simple applications
FEBRUARY	REVISION / FINAL EXAM

**BHARATIYA VIDYA BHAVAN, KOCHI**

**YEAR PLAN FOR THE ACADEMIC YEAR 2026-27**

**SUBJECT: HOME SCIENCE**

**CLASS: XI**

<b>MONTH</b>	<b>TOPIC</b>	<b>SUB-TOPICS</b>	<b>CONCEPTS</b>
<b>JUNE</b>	Chapter 1 Introduction to Home Science	1. Concept of Home Science 2. Field of Home Science 3. Relevance of study of Home Science and career options	1. Definition of Home Science 2. Branches - Food and Nutrition, Human Development, Textiles and Clothing, Resource Management, Community and Extension 3. Importance and scope 4. Multidisciplinary - Combination of Science and Art.
	Chapter 2 - Understanding the Self.	1. Who am I? 2. Development and Characteristics of the Self(Development characteristics and needs of adolescents) 3. Influences on Identity	1. Definition and characteristics of adolescent 2. Biological and physical changes, Socio-cultural context, Emotional changes, Cognitive changes
<b>JULY</b>	Chapter 3 - Food, Nutrition, Health and Fitness	1. Definitions 2. Using Basic food Groups for planning Balanced Diets 3. Dietary patterns in Adolescence	1. Definition of Food, Nutrition, Nutrients, Balanced diet, RDA 2. Food Pyramid 3. Factors influencing eating behaviour 4. Eating disorders - Anorexia Nervosa and Bulimia Nervosa
	Chapter 4 - Management of Resources	1. Classification and characteristics of resources 2. Management Process	1. Human and non-human resources 2. Process - Planning, Organising, Implementing, Controlling and Evaluation
<b>JULY</b>	<b>UNIT TEST 1- CHAPTERS 1,2 &amp; 3</b>		
<b>AUGUST</b>	Chapter 5- Fabric Around us	1. Definitions 2. Classification of fibres 3. Yarn processing 4. Properties of fibre 5. Fabric production 6. Textile finish	1. Fibre, yarn 2. Length - staple, filament; Origin - natural and manmade 3. Spinning 4. Physical, thermal, chemical and biological. 5. Weaving, Knitting, felting, Braiding 6. Basic and special finishes
	Chapter 6 - Media and Communication Technology	1. Definition 2. Classification 3. Functions of media 4. Classification of communication technology	1. Communication 2. Interpersonal and intrapersonal; Group and mass communication 3. Modern communication technologies
<b>SEPTEMBER</b>	Chapter 7- Concerns and needs in diverse contexts	1. Nutrition, Health and Hygiene	1. Dimensions and indicators of health 2. Factors affecting nutritional well being 3. Malnutrition, Hygiene and Sanitation
<b>SEPTEMBER - OCTOBER</b>	<b>TERM END EVALUATION - CHAPTERS 1,2,3,4,5,6&amp;7(Nutrition, Health and Hygiene)</b>		
<b>OCTOBER</b>	Chapter 7- Concerns and needs in diverse contexts	2. Resources Availability and Management	Time management Space management
<b>OCTOBER - NOVEMBER</b>	Chapter 8 - Nutrition, Health and Wellbeing	1. Nutrition, Health and Well-being during infancy (birth – 12 months) 2. Nutrition, Health and well-being of preschool children (1-6 years) 3. Nutrition, Health and well-being of school-age children (7-12 years)	1. Immunity, Immunization, importance of breast feeding, weaning,nutritional problems (0-1year) 2. Planning of balanced meal (1-6 years) 3. Diet planning and healthy habits (7-12 years)

NOVEMBER	Chapter 9 - Our Apparel	<ol style="list-style-type: none"> <li>1. Clothing functions and the selection of clothes</li> <li>2. Factors affecting selection of clothing in India</li> <li>3. Understanding children"s basic clothing needs</li> <li>4. Clothing requirements at different childhood stages</li> </ol>	<ol style="list-style-type: none"> <li>1. Modesty, Protection, Status and prestige,Adornment</li> <li>2. Age, Climate and season, Occasion, Fashion, Income</li> <li>3. Comfort, Safety, Self help, Appearance, Allowance for growth, Easy care, Fabrics</li> <li>4. Infancy, Childhood, Adolescents, CWSN</li> </ol>
DECEMBER	UNIT TEST 2- CHAPTERS 7(Resources availability and Management),8 &9		
DECEMBER - JANUARY	Chapter 12 - Financial Management and planning	<ol style="list-style-type: none"> <li>1. Types of family income</li> <li>2. Expenditure</li> <li>3. Budget making</li> <li>4. Savings</li> <li>5. Investment</li> <li>6. Credit</li> </ol>	<ol style="list-style-type: none"> <li>1. Money, real and psychic income and factors affecting income.</li> <li>2. Definition and factors affecting expenditure</li> <li>3. Investment - Bank, PO, LIC,PF</li> <li>4. Credit - 4Cs</li> </ol>
JANUARY	Chapter 13 - Care and Maintenance of fabrics	<ol style="list-style-type: none"> <li>1. Need for care of clothes</li> <li>2. Laundering and storage of different types of clothes</li> <li>3. Stain removal</li> <li>4. Care label</li> </ol>	<ol style="list-style-type: none"> <li>1. Soaps and detergents, General rules for storage</li> <li>2. Techniques and reagents for stain removal, Principles of stain removal</li> <li>3. Washing instructions on care label</li> </ol>
FEBRUARY	REVISION AND FINAL EXAMINATION		

**BHARATIYA VIDYA BHAVAN, KOCHI KENDRA**

**YEAR PLAN FOR THE ACADEMIC YEAR 2026-'27**

**STD: XI FINANCIAL MARKETS MANAGEMENT (805)**

<b>MONTH</b>	<b>TOPIC</b>	<b>SUB-TOPICS</b>	<b>CONCEPTS</b>
<b>June</b>	<b>PART - B UNIT -1 MARKETS AND FINANCIAL INSTRUMENTS .  PART - A UNIT 1 COMMUNICATION SKILLS - III</b>	Investment Stock Exchanges	Investment,  Options available for Investment  stock Exchange  Depository  Interest rate, Equity/share, Debt instrument Securities.

<p><u><b>JULY</b></u></p>	<p><b>PART - B UNIT1 MARKETS AND FINANCIAL INSTRUMENTS &amp; EMPLOYABILITY SKILLS.</b></p> <p><b>PART - A UNIT 1 COMMUNICATION SKILLS - III</b></p>	<p><b>Regulators and other participants</b></p>	<p>Regulators-Securities Market needs Regulators</p> <p>Regulators of the Securities Market-SEBI role in the securities Market</p> <p>participants-The Participants in the securities Market Transact through an intermediary</p> <p>The segments of Securities Market</p>
<p><b>Unit Test I-27/07/26-03/08/26</b></p>			

<u>August</u>	<b>PART-B- UNIT 2: PRIMARY AND SECONDARY MARKET</b> <b>PART - A UNIT 2 : SELF MANAGEMET SKILLS - III</b>	<b>Primary market</b>	Primary Market Issue of Shares Initial Public Offer(IPO) Prospectus Listing of Securities SEBI'S Role in an issue Foreign Capital Issuance
<u>September</u>	<b>PART-B- UNIT 2:PRIMARY AND SECONDARY MARKET</b> <b>PART - A UNIT 2 : SELF MANAGEMENT SKILLS - III</b>	<b>Secondary Market</b>	Introduction Stock Exchange Depository Stock Trading Precautions must one take before investing in the stock market Products in the secondary market Equity Investment Debt investment Miscellaneous(only for reading)

<p><b>October</b></p>	<p><b>PART-B UNIT-3 MUTUAL FUND PRODUCTS AND FEATURES</b></p> <p><b>PART-A UNIT-3 ICT SKILLS- III</b></p>	<p><b>Mutual Fund Structure</b>  <b>Categories of Mutual Funds</b>  <b>Equity Schemes and turn over</b></p>	<p>Mutual Fund Structure in India ,Manages Investor's Money ,Custodian  Role of AMC  Role of a registrar and transfer agents</p> <p>Procedure for investing in an NFO  New Fund Offer  Open ended and close ended funds  Equity oriented fund-introduction-Equity fund definition  Index fund ,diversified large cap funds, midcap funds  Sectoral Funds, Other equity schemes.</p>
<p><b>Term End Evaluation:28/09/2026- 09/10/26</b></p>			

<p><b>November</b></p>	<p><b>PART - B UNIT - 4 ETF'S,DEBT AND LIQUIDITY FUNDS AND EMPLOYABILITY</b></p> <p><b>PART - A UNIT - 4 ENTREPRENEURIAL SKILLS- III</b></p>	<p><b>Exchange Traded Funds Features of Debt Funds Features of Liquid Funds</b></p>	<p>Introduction to Exchange Traded Funds, Salient features REITS ,Gold ETF ,NFO ,Sovereign Gold Bonds, Market making by APS, Creation units, Portfolio deposits and cash components Salient features, Interest Rate Risk, Credit Risk, Debt instrument Priced Debt mutual fund schemes- Salient features, Valuation of securities, floating rate scheme -Portfolio churning in liquid funds stress testing of assets</p>
<p><b>December</b></p>	<p><b>PART-B UNIT - 5 Taxation and Regulation.</b></p> <p><b>PART-A UNIT-5 Green Skills- III</b></p>	<p><b>Capital Gain Taxation Types of Systematic Mutual Fund Plan</b></p> <p><b>Options of Mutual Fund Schemes</b></p>	<p>Capital gains taxation Indexation benefit Dividend distribution Tax, FMPs are popular, overview Industry association for the Mutual Fund Industry Objectives of AMFI Product labeling in Mutual Funds-Riskometer Advantages of Mutual Funds Systematic Investment Plan (SIP) Systematic Transfer Plan (STP) Systematic Withdrawal Plan(SWP) Choosing between dividend payout, Dividend payout option Dividend reinvestment option</p>

**Unit Test II - 14/12/26-21/12/26**

<b>January/ February</b>	<b>PART - B QUANTATIVE EVALUATION OF MUTUAL FUND SCHEMES</b>	<b>Mutual Fund Return Calculations Mutual Fund Risk Calculations Mutual Fund Risk Adjustment Calculations</b>	<b>Returns - XIRR, Dividend Re-investment (CAGR), compounding of Periodic Returns Risk-Standard Deviation, Beta, Weighted average Maturity, Modified Duration Risk Adjusted Returns-Sharpe Ratio, Sortino Ratio,Treynor Ratio, Jensen's Alpha</b>
<b>Final Examination:15/02/2026- 26/02/26</b>			

**BHARATIYA VIDYA BHAVAN, KOCHI**

**YEAR PLAN FOR THE ACADEMIC YEAR 2026-27**

**SUBJECT: FOOD, NUTRITION & DIETETICS (834)**

**CLASS: XI**

MONTH	TOPIC	SUB-TOPICS	CONCEPTS
JUNE	<p><b>PART A : UNIT 1 - Communication skills III</b></p> <p><b>PART B : UNIT 1 -Food and nutrition : basic concepts</b></p>	<p><b>Communication skills III</b>                      Session 1: Introduction to Communication                      Session 2: Verbal Communication                      Session 3: Non-verbal Communication                      Session 4: Pronunciation Basics                      Session 5: Communication Styles — Assertiveness                      Session 6: Saying No — Refusal Skills                      Session 7: Writing Skills — Parts of Speech</p> <p><b>Food and nutrition : basic concepts</b>                      Chapter 1:Nutritional status and Primary Health Care                      Chapter 2:Food: Basic Concept                      Chapter 3:Nutrients</p>	<p><b>PART A</b>                      1. Importance, elements, perspective of communication                      2. Types of verbal communication - advantages and disadvantages                      3. Importance and types of non verbal communication                      4. Speaking properly, Phonetics                      5. Important communication styles - assertive communication : advantage, practicing                      6. How to say NO, connecting words                      7. Using capitals, punctuations, parts of speech</p> <p><b>PART B</b>                      1. Functions of food, primary health care, nutritional status                      2. Carbohydrates, proteins, fats and oils, vitamins and minerals,ICMR 5 food groups                      3. Macronutrients and micronutrients: sources and functions</p>
JULY	<p><b>PART A : UNIT 1 - Communication skills III</b></p> <p><b>PART B : UNIT 1- Food and nutrition : basic concepts</b></p>	<p><b>Communication skills III</b>                      Session 8: Writing Skills — Sentences                      Session 9: Greetings and Introduction                      Session 10: Talking about Self                      Session 11: Asking Questions                      Session 12: Talking about Family                      Session 13: Describing Habits and Routines                      Session 14: Asking for Directions</p> <p><b>Food and nutrition : basic concepts</b>                      Chapter 4: Recommended Dietary Allowances                      Chapter 5:Concepts of meal planning</p>	<p><b>PART A</b>                      8. Parts of a sentence, types of objects, types of sentences, paragraph                      9. Types of greeting , introducing yourself and others                      10. Talking about yourself, filling a form                      11. What are the 2 main types of questions, how to frame questions                      12. New words - names for relatives, words that show relation                      13. Concept of habit and routine                      14. How to ask for or give directions, more about directions using landmarks</p> <p><b>PART B</b>                      4. Basic concept, significance of RDA                      5. Definitions, importance of meal planning , factors affecting meal planning, planning balanced diet</p>
JULY	<b>UNIT TEST 1- PART A- UNIT 1, PART B - UNIT 1</b>		
AUGUST	<p><b>PART B : UNIT 2- Nutrition through the life cycle</b></p>	<p><b>Nutrition through the life cycle</b>                      Chapter 1:Nutrition during Infancy (0-1 years) and Preschool years(1-6 years)                      Chapter 2: Nutrition during Childhood and Adolescent                      Chapter 3:Nutrition during Adulthood and old age                      Chapter 4:Nutrition during pregnancy and lactation</p>	<p><b>PART B</b>                      1. Nutrient needs of infants, feeding practices, nutrition needs of preschoolers                      2. Nutrient needs, importance of breakfast, healthy choices, factors influencing food and nutrition during adolescence                      3. Nutrition during adulthood, old age, eating problems in elderly                      4.Nutrition during pregnancy, special consideration in pregnancy, nutrition during lactation</p>



NOVEMBER	<p><b>PART A - UNIT 4: Entrepreneurial Skills-III</b></p> <p><b>PART A - UNIT 5: Green skills III</b></p> <p><b>PART B : UNIT 4 - Public health and Nutrition disorders</b></p>	<p><b>Entrepreneurial Skills-III</b>  Session 1: Introduction to Entrepreneurship  Session 2: Values of an Entrepreneur  Session 3: Attitude of an Entrepreneur  Session 4: Thinking Like an Entrepreneur  Session 5: Coming Up with a Business Idea  Session 6: Understanding the Market  Session 7: Business Planning</p> <p><b>Green skills III</b>  Session 1: Sectors of Green Economy  Session 2: Policies for a Green Economy  Session 3: Stakeholders in Green Economy  Session 4: Government and Private Agencies</p> <p><b>Public health and Nutrition disorders</b>  Chapter 1:Major Deficiency Disorder: (PEM in the context of underweight, stunting, wasting, SAM;  Nutritional Anemia with special reference to Iron Deficiency Anemia; Vitamin A Deficiency (Xerophthalmia); Iodine deficiency Disorders;  Zinc Deficiency; Prevalence, causes, consequences and its control.  Chapter 2:Other Nutrition Problems: Vitamin B complex deficiencies, Vitamin-C deficiency, Vitamin D Deficiency.</p>	<p><b>PART A</b>  1. Entrepreneur, Entrepreneurship, types of business activities  2. Values of Entrepreneur  3. Difference between attitude of entrepreneurs and employee  4. Problems of entrepreneurs, problem solving  5. What is a business idea, principles of idea creation, form a business idea  6. Understanding customer needs, customer survey, competition survey  7. Importance of planning, business plan, improving and growing business</p> <p>1. Environment related terms, important sectors in green economy  2. NAPCC, GIM, Jawaharlal Nehru national solar mission, SBA, NGT  3. Government , NGO, business and industry, farmers, women, workers and trade unions, etc  4. Role of the government and private agencies, examples of green projects</p> <p><b>PART B</b>  1. PEM, Management of SAM, Iron deficiency - Anemia ( prevalence, causes, consequence, sources of dietary Iron, national programmes, management of deficiency), VAD - prevalence, causes, consequence, deficiency control, IDD- prevalence, causes, consequence, programme, Zinc deficiency- prevalence, causes, consequence  2. Vit B complex - functions, deficiency, sources, Vit C - deficiency and sources, Vit D - sources and deficiency</p>
DECEMBER	<p><b>PART B : UNIT 4 - Public health and Nutrition disorder</b></p>	<p><b>Public health and Nutrition disorder</b>  Chapter3:Overweight/obesity:Definition/classification (WHO), causes and consequences.  Chapter 4:Non Communicable Diseases (Diabetes, CVD, cancer) concept, prevalence, causes (Behavioral) and consequences.</p>	<p>3. BMI, causes of obesity, consequence of being overweight or obese  4. Diabetes mellitus - types, prevalence, causes, consequence, management, CVD- risk factors, prevalence, consequence, management, Cancer - prevalence, consequence, cancer education</p>
DECEMBER	<b>UNIT TEST 2- PART A( UNIT - 3,4) PART B (UNIT - 3; 4 - Chapters 1,2)</b>		
JANUARY	<p><b>PART B : UNIT 5- Public health and nutrition : programmes and policies</b></p> <p><b>PART B : UNIT 6 - Nutrition education, communication and behaviour change</b></p>	<p><b>Public health and nutrition : programmes and policies</b>  Chapter 1:National programme for welfare of women and children.  Chapter 2:Programmes for welfare of adolescent girls and women.</p> <p><b>Nutrition education, communication and behaviour change</b>  Chapter 1:Information, Education and Communication (IEC)</p>	<p><b>PART B</b>  1. ICDS, midday meal programme  2. RKSK, SABLA, IGMSY, POSHAN ABHIYAAN</p> <p>1. Terminologies used in the context of nutrition education, communication, need scope and importance of BCC, BCC process, BCC methods</p>
FEBRUARY	<b>REVISION AND ANNUAL EXAMINATION</b>		

## PAT

### YEAR PLAN FOR CLASS XI – 2026-27

MONTH	TOPIC
JUNE	Unit 1 – Communication Skills - III & Unit 1 – Role of Physical Education in Child Development
JULY	Unit 1 – Communication Skills - III & Unit 1 – Role of Physical Education in Child Development
AUGUST	Unit 2 – Self Management Skills - III & Unit 1 – Role of Physical Education in Child Development
SEPTEMBER	Unit 2 – Self Management Skills - III & Unit 2 – Props and Equipment
OCTOBER	Unit 3 – Information and Communication Technology (ICT) Skills - III & Unit 2 – Props and Equipment
NOVEMBER	Unit 3 – Information and Communication Technology (ICT) Skills – III & Unit 3 – Hygiene and Safety
DECEMBER	Unit 4 – Entrepreneurial Skills – III & Unit 3 – Hygiene and Safety
JANUARY	Unit – 5 – Green Skills & Unit 4 – Sports & Fitness
FEBRUARY	Unit – 5 – Green Skills & Unit 4 – Sports & Fitness

**BHARATIYA VIDYA BHAVAN, KOCHI KENDRA**

**YEAR PLAN FOR THE ACADEMIC YEAR 2026-2027**

**STD : XI ARTIFICIAL INTELLIGENCE**

MONTH	TOPIC	SUB-TOPICS	CONCEPTS
<p align="center"><b>June</b></p>	<p>* PART B: Unit 1: Introduction: Artificial Intelligence for Everyone</p> <p>* PART A: Unit 1 : Communication Skills-III</p>	<p>* Unit 1: Introduction To AI                      What is AI?                      Evolution of AI                      Types of AI                      Domains of AI                      AI Terminologies                      Benefits &amp; limitations of AI</p> <p>* Unit 1 : Communication Skills-III:                      Methods of communication                      - Verbal                      - Non-verbal                      - Visual                      Communication styles - assertive, aggressive, passive aggressive, submissive, etc.                      Writing skills to the following:                      • Sentence                      • Phrase                      • Kinds of Sentences                      • Parts of Sentence                      • Parts of Speech                      • Articles                      • Construction of a Paragraph</p>	<p>Unit 1:INTRODUCTION TO ARTIFICIAL INTELLIGENCE                      TYPES AND DOMAINS OF AI                      AI TERMINOLOGIES                      BENEFITS AND LIMITATIONS OF AI</p> <p>Unit 1 : Communication Skills-III:                      Types of communication, Communication styles, Writing skills</p>

<p><b>July</b></p>	<p>* PART B Unit 2: Unlocking your Future in AI  * PART B : UNIT 3 - PYTHON PROGRAMMING ( Level 1 )  Level 1 : Basics of python programming, character sets, tokens, modes, operators, datatypes, Control Statements</p>	<p>PART B Unit 2: Unlocking your Future in AI</p> <ul style="list-style-type: none"> <li>• The Global Demand</li> <li>• Some Common Job Roles In AI</li> <li>• Essential Skills and Tools for Prospective AI Careers</li> <li>• Opportunities in AI across Various Industries</li> </ul> <p>Python Basics</p>	<p>Unit 2: AI CAREERS AND INDUSTRY OPPORTUNITIES  ESSENTIAL AI SKILLS AND TOOLS  AI JOB ROLES  APPLICATIONS OF AI IN INDUSTRIES</p> <p>UNIT 3 - PYTHON PROGRAMMING ( Level 1 )  Level 1 : Basics of python programming, character sets, tokens, modes, operators, datatypes, Control Statements</p>
<p><b>Unit Test I - 27/07/26 - 03/08/26</b></p>			
<p><b>August</b></p>	<p>PART B :UNIT 3 - PYTHON PROGRAMMING (Level 2)  PART B: Unit 5: DATA LITERACY – DATA COLLECTION TO DATA ANALYSIS</p>	<p>Unit 5: Data Literacy – Data Collection to Data Analysis</p> <ul style="list-style-type: none"> <li>• What is Data Literacy?</li> <li>• Data Collection</li> <li>• Exploring Data</li> <li>• Statistical Analysis of data</li> <li>• Representation of data, python programs for statistical analysis and data visualization</li> <li>• Introduction to Matrices</li> <li>• Data Pre-processing</li> <li>• Data in Modelling and Evaluation</li> </ul> <p>PART B: UNIT 3 - Python (Level 2)</p> <ul style="list-style-type: none"> <li>* Simple List creation</li> <li>* Accessing elements in a list</li> <li>* Simple dictionary creation</li> <li>* Accessing elements in a Dictionary</li> </ul>	<p>Unit 5: DATA LITERACY AND DATA ANALYSIS  STATISTICAL ANALYSIS AND DATA VISUALIZATION  DATA PRE-PROCESSING AND MODELLING  PRACTICAL APPLICATIONS USING PYTHON</p> <p>UNIT 3 - PYTHON PROGRAMMING (Level 2)</p> <ul style="list-style-type: none"> <li>* Simple List creation</li> <li>* Accessing elements in a list</li> <li>* Simple dictionary creation</li> <li>* Accessing elements in a Dictionary</li> </ul>

<p><b>September</b></p>	<p>PART A: Unit 2 : Self-Management Skills-III</p> <p>PART B: UNIT 8 – AI ETHICS AND VALUES</p> <p>PART B :UNIT 3 - PYTHON PROGRAMMING (Level 2)</p>	<p>Unit 2 : Self-Management Skills-III</p> <p>*1. Describe the importance of dressing appropriately, looking decent and positive body language</p> <p>2. Describe the term grooming</p> <p>3. Prepare a personal grooming checklist</p> <p>4. Describe the techniques of selfexploration</p> <p>*1. Describe the important factors that influence in team building</p> <p>2. Describe factorsinfluencing team work</p> <p>*Meaning and importance of time management – setting and prioritizing goals, creating a schedule, making lists of tasks, balancing work and leisure, using different optimization tools to break large tasks into smaller tasks.</p> <p>PART B: Unit 8: AI Values (Ethical Decision Making)</p> <p>Ethics in Artificial Intelligence</p> <ul style="list-style-type: none"> <li>• The five pillars of AI Ethics</li> <li>• Bias, Bias Awareness, Sources of Bias</li> <li>• Mitigating Bias in AI Systems</li> <li>• Developing AI Policies</li> <li>• Moral Machine Game</li> <li>• Survival of the Best Fit Game</li> </ul>	<p>Unit 2 : Self-Management Skills-III</p> <p>PERSONALITY DEVELOPMENT AND SELF-MANAGEMENT</p> <p>TEAM BUILDING AND TEAMWORK</p> <p>TIME MANAGEMENT SKILLS</p> <p>GOAL SETTING AND TASK PLANNING</p> <p>Unit 8: AI Values (Ethical Decision Making)</p> <p>ETHICS IN ARTIFICIAL INTELLIGENCE</p> <p>BIAS AND FAIRNESS IN AI</p> <p>AI POLICIES AND RESPONSIBLE AI</p> <p>ETHICAL AI ACTIVITIES AND GAMES</p> <p>UNIT 3 - PYTHON PROGRAMMING (Level 2)</p> <ul style="list-style-type: none"> <li>* Python Libraries</li> <li>* Simple numpy array creation</li> </ul>
<p style="text-align: center;"><b>Term End Evaluation I : 28/9/2026 - 9/10/26</b></p>			

<p><b>October</b></p>	<p>PART A: Unit 3: Information and Communication Technology Skills-III</p> <p>PART B :UNIT 3 - PYTHON PROGRAMMING (Level 2)</p>	<p>PART A: Unit 3: Information and Communication Technology Skills-III</p> <ol style="list-style-type: none"> <li>1. Introduction to word processing.</li> <li>2. Software packages for word processing.</li> <li>3. Opening and exiting the word processor.</li> <li>4. Creating a document</li> </ol> <ol style="list-style-type: none"> <li>1. Editing text</li> <li>2. Wrapping and aligning the text</li> <li>3. Font size, type and face.</li> <li>4. Header and Footer</li> <li>5. Auto correct</li> <li>6. Numbering and bullet</li> <li>7. Creating table</li> <li>8. Find and replace</li> <li>9. Page numbering.</li> <li>10. Printing document.</li> <li>11. Saving a document in various formats.</li> </ol> <p>PART B: UNIT 3 - Python (Level 2)</p>	<p>Unit 3: Information and Communication Technology Skills-III Word Processor</p> <p>INTRODUCTION TO WORD PROCESSING DOCUMENT CREATION AND EDITING FORMATTING AND TABLE MANAGEMENT SAVING AND PRINTING DOCUMENTS</p> <p>UNIT 3 - PYTHON PROGRAMMING (Level 2)</p> <ul style="list-style-type: none"> <li>* Pandas (installation)</li> <li>* Creation of Series using List</li> </ul>
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<p><b>November</b></p>	<p>PART B: UNIT 7 – LEVERAGING LINGUISTICS AND COMPUTER SCIENCE</p> <p>PART A: Unit 4 : : Entrepreneurial Skills-III</p> <p>PART A: Unit 5 : Green Skills-III</p> <p>PART B :UNIT 3 - PYTHON PROGRAMMING (Level 2)</p>	<p>PART B: UNIT 7 – LEVERAGING LINGUISTICS AND COMPUTER SCIENCE</p> <ul style="list-style-type: none"> <li>• Understanding Human Language Complexity</li> <li>• Introduction to Natural Language Processing(NLP) - Emotion Detection and Sentiment Analysis, Classification Problems, Chatbot</li> <li>• Phases of NLP</li> <li>• Applications of NLP</li> </ul> <p>PART A: Unit 4 : Entrepreneurial Skills-III</p> <ol style="list-style-type: none"> <li>1. Values in general and entrepreneurial values</li> <li>2. Entrepreneurial value orientation with respect to innovativeness, independence, outstanding performance and respect for work</li> </ol> <ol style="list-style-type: none"> <li>1. Attitudes in general and entrepreneurial attitudes</li> <li>2. Using imagination/ intuition</li> <li>3. Tendency to take moderate risk</li> <li>4. Enjoying freedom of expression and action</li> <li>5. Looking for economic opportunities</li> <li>6. Believing that we can change the environment</li> <li>7. Analyzing situation and planning</li> </ol>	<p>Unit 4 : Entrepreneurial Skills-III</p> <p>Introduction to Entrepreneurial Values</p> <p>Entrepreneurial Value Orientation</p> <p>Entrepreneurial Attitudes and Risk Taking</p> <p>Planning and Participation in Entrepreneurial Activities</p> <p>PART B: UNIT 7 – LEVERAGING LINGUISTICS AND COMPUTER SCIENCE</p> <p>Introduction to Natural Language Processing (NLP)</p> <p>Human Language and NLP Techniques</p> <p>Phases and Applications of NLP</p> <p>NLP-Based AI Systems</p> <p>Unit 5 : Green Skills-III</p> <p>Introduction to Green Economy</p> <p>Main Sectors of Green Economy</p> <p>Policy Initiatives for Green Economy in India</p> <p>Stakeholders and Sustainable Development</p> <p>UNIT 3 - PYTHON PROGRAMMING (Level 2)</p> <p>DataFrame creation using Numpy Array</p>
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		<p>PART A: Unit 5 : Green Skills-III</p> <p>1. Main sectors of green economy- Ewaste management, green transportation, renewal energy, green construction, water management</p> <p>2. Policy initiativesfor greening economy in India</p> <p>1. Stakeholders in green economy</p> <p>2. Role of government and private agenciesin greening cities, buildings, tourism, industry, transport, renewable energy, waste management, agriculture, water, forests and fisheries</p> <p>PART B: UNIT 3 - Python (Level 2)</p> <p>DataFrame creation using Numpy Array</p>	
<b>December</b>	PART B - UNIT 6 – MACHINE LEARNING ALGORITHMS	<p>ALGORITHMS</p> <ul style="list-style-type: none"> <li>• Machine Learning in a nutshell</li> <li>• Types of Machine Learning</li> <li>• Supervised Learning</li> <li>• Understanding Correlation, Regression, Finding the line, Linear Regression algorithm</li> </ul>	<p>UNIT 6 – MACHINE LEARNING ALGORITHMS</p> <p>Introduction to Machine Learning</p> <p>Types of Machine Learning</p> <p>Supervised Learning Techniques</p> <p>Correlation and Linear Regression</p>
<b>Unit Test II - 14/12/26 - 21/12/26</b>			

<p><b>January</b></p>	<p>UNIT 6 – MACHINE LEARNING ALGORITHMS</p> <p>PART B: Unit 5: INTRODUCTION TO CAPSTONE PROJECT</p> <p>PART B :UNIT 3 - PYTHON PROGRAMMING (Level 2)</p>	<p>UNIT 6 – MACHINE LEARNING ALGORITHMS</p> <ul style="list-style-type: none"> <li>• Classification – How it works, Types, k – Nearest Neighbour algorithm</li> <li>• Unsupervised Learning</li> <li>• Clustering – How it works, Types, k -means Clustering algorithm</li> </ul> <p>Unit 5: PART B: Unit 5: INTRODUCTION TO CAPSTONE PROJECT</p> <p>Design Thinking</p> <p>Empathy Map</p> <p>Sustainable Development Goals</p> <p>PART B: UNIT 3 - Python (Level 2)</p> <p>DataFrame creation using CSV</p> <p>Scikit-learn</p> <p>CAPSTONE PROJECT (Project Work)</p>	<p>UNIT 6 – MACHINE LEARNING ALGORITHMS</p> <p>Classification, Clustering</p> <p>Unit 5: CAPSTONE PROJECT</p> <p>Introduction to Design Thinking</p> <p>Understanding Empathy Mapping</p> <p>Sustainable Development Goals (SDGs)</p> <p>Problem Solving for Social Good</p> <p>UNIT 3 - PYTHON PROGRAMMING (Level 2)</p> <p>DataFrame creation using CSV</p> <p>Scikit-learn</p>
<p><b>February</b></p>	<p>Capstone Project / Practical and Revision</p> <p>Practical Exam (Before February 10)</p>	<p>Capstone Project / Practical and Revision</p>	<p><b>Capstone Project / Practical and Revision</b></p>
<p align="center"><b>Final Examination: 15/02/2027 - 26/02/27</b></p>			

BHARATIYA VIDYA BHAVAN, KOCHI KENDRA  
YEAR PLAN FOR THE ACADEMIC YEAR 2026-2027

STD : XI Yoga

MONTH	TOPIC	SUB-TOPICS	CONCEPTS
June	<p style="text-align: center;">PART B: Unit 1: Introduction: Introduction To Yoga and Yogic Practice. Unit.1.1 - Yoga Etymology, definition, aim , objective and misconception Unit 1.2- Yoga Origin , History and Development PART A:Unit 1 : Communication Skills-III</p>	Unit 1.1: Introduction and Definition	Students will be able to describe the common yoga terms and explain the meaning of common terminology of yoga
		What is Yoga?	
		Common Terminology Used in Yoga?	
		Misconceptions about Yoga?	
		Unit : 1.2 - Yoga Origin, History and Development	Understanding how and where yoga originate. How yoga is spread globally
		History and Evolution of Yoga	
		Journey of Yoga from India to the World	
		Contribution of Yoga Gurus in spreading Yoga	
		Unit 1 : Communication Skills-III:	Unit 1 : Communication Skills-III:
		Session 1: Introduction to Communication Session 2: Verbal Communication	Types of communication, Communication styles
		Session 3: Non-verbal Communication Session 4: Pronunciation Basics	
		Session 5: Communication Styles — Assertiveness Session 6: Saying No — Refusal Skills	Unit 2: Unlocking your Future in AI:

BHARATIYA VIDYA BHAVAN, KOCHI KENDRA  
YEAR PLAN FOR THE ACADEMIC YEAR 2026-2027  
STD : XI Yoga

MONTH	TOPIC	SUB-TOPICS	CONCEPTS
July	PART B: Unit 1: Introduction: Introduction To Yoga and Yogic Practice. Unit 1.5 - Introduction of Yogya Practise	Unit 1.3- Rules and Regulations to be followed by Yoga Practioners	Students understant the basic rules and disipline of yoga
		Unit 1.4- Introduction to major Schools of Yogas	Understanding different types of yoga helps students stay foccus calm do better in their studies and their life
		Unit 1.5- Sukshama Vyayam, Surya Namaskar and Asanans	Helps to stimualte all Endocrine glands , improve joint, flexibility and blood circulation
	PART A: Unit 1 : Communication Skills-III Writing skills, communication skills.	Unit 1 : Communication Skills-III Writing skills, communication skills.	
		Non-technical explanation of deep learning PART A Unit 1 : Communication Skills-III Session 7: Writing Skills — Parts of Speech Session 8: Writing Skills — Sentences Session 9: Greetings and Introduction Session 10: Talking about Self	Communication Skills-III Writing skills, communication skills.
		Session 11: Asking Questions Session 12: Talking about Family	
		Session 13: Describing Habits and Routines Session 14: Asking for Directions	

"Unit Test I Starts:27-7-2026

BHARATIYA VIDYA BHAVAN, KOCHI KENDRA  
YEAR PLAN FOR THE ACADEMIC YEAR 2026-2027

STD : XI Yoga

MONTH	TOPIC	SUB-TOPICS	CONCEPTS
August	PART B: Unit 2 : Introduction to Yoga Texts	Unit 2.1 - Introduction and study of Patanjali Yoga Sutra including memorisation of selected Sutra	
		Patanjali Yoga Suturas	*Mental Clarity * Stress Management *Ethical Living *Concentration and confidence
		Overview of Yoga Sutras	*Samadhi Pada *Sadhana Pada*Vibhuti Pada*Kaivalya Pada
		Ashtanga Yoga	Eight Limbs of Yoga
		Yoga Principle	
		Meaning of Yoga Principle	Yama - Be good to others Niyama - Be good to yourself - These help students become better people , both inside and outside
	PART A: Unit 2 : Self-Management Skills-III	Unit 2 : Self-Management Skills-III Session 1: Strength and Weakness Analysis Session 2: Grooming	Unit 2 : Self-Management Skills-III Self Awareness, Importance of working in team
		Session 3: Personal Hygiene Session 4: Team Work Session 5: Networking Skills Session 6: Self-motivation Session 7: Goal Setting Session 8: Time Management	

BHARATIYA VIDYA BHAVAN, KOCHI KENDRA  
 YEAR PLAN FOR THE ACADEMIC YEAR 2026-2027  
 STD : XI Yoga

MONTH	TOPIC	SUB-TOPICS	CONCEPTS
September	PART B: Unit 2 : Introduction to Yoga Texts	PART B: Unit 2.2 Introduction and study of Bhagavad Gita including memorization of selected Slokas	Bhagavad Gita is a spiritual scripture that imparts ethical values self discipline and inner strength it guides students to distinguish right from wrong , promoting dharma
		PART A: Unit 3: Information and Communication Technology Skills-III	
	PART A: Unit 3: Information and Communication Technology Skills-III	Session 1: Introduction to ICT	Technology Skills-III

**"Term End Evaluation 1**

**9/28/2026**

BHARATIYA VIDYA BHAVAN, KOCHI KENDRA  
 YEAR PLAN FOR THE ACADEMIC YEAR 2026-2027  
 STD : XI Yoga

		PART B: Unit 2.3: INTRODUCTION OF HATHA PRADPIKA UNIT 2.4; INTRODUCTION AND STUDY OF GHERANDA SAMHITA	
		PROJECT(Practical only) Design Thinking Empathy Map Sustainable	<b>Hatha yoga pradpika illuminates various aspects of an individual like physical, mental and spiritual. Gheranda samhita purifies the whole psycho , physical unit of body.</b>
		PART A: Unit 4 : Entrepreneurial Skills-III	
		<ul style="list-style-type: none"> <li>• Session 1: Introduction to Entrepreneurship</li> </ul>	
		<ul style="list-style-type: none"> <li>• Session 2: Values of an Entrepreneur</li> </ul>	
	PART B: Unit 2: INTRODUCTION TO YOGA TEXTS - 1	<ul style="list-style-type: none"> <li>• Session 3: Attitude of an Entrepreneur</li> </ul>	
October	PART A: Unit 4 : Entrepreneurial Skills-III	<ul style="list-style-type: none"> <li>• Session 4: Thinking Like an Entrepreneur</li> </ul>	
		<ul style="list-style-type: none"> <li>• Session 5: Coming Up with a Business Idea</li> </ul>	Unit 4 : Entrepreneurial Skills-III Functions and qualities of an entrepreneur
		<ul style="list-style-type: none"> <li>• Session 6: Understanding the Market</li> </ul>	
		<ul style="list-style-type: none"> <li>• Session 7: Business Planning</li> </ul>	

BHARATIYA VIDYA BHAVAN, KOCHI KENDRA  
 YEAR PLAN FOR THE ACADEMIC YEAR 2026-2027  
 STD : XI Yoga

November	PART B: UNIT 3 - YOGA FOR HEALTH PROMOTION(MAINTAIN HEALTH SAFETY AT WORK PLACE)	PART B: UNIT 7 3.1- Brief introduction to human body 3.2 - Role of yoga for health promotion 3.3 - Yogic attitudes and practices	1. Children will be able to understand how our body works 2. How our body stay healthy 3. How to treat diseases
	PART A: Unit 5 : Green Skills-III	• Session 1: Sectors of Green Economy	Unit 5 : Green Skills-III
		• Session 2: Policies for a Green Economy	• Green economy initiatives
		• Session 3: Stakeholders in Green Economy	• Importance of green economy
		• Session 4: Government and Private Agencies	

BHARATIYA VIDYA BHAVAN, KOCHI KENDRA  
 YEAR PLAN FOR THE ACADEMIC YEAR 2026-2027  
 STD : XI Yoga

December		PART B	
		Holistic approach of yoga towards the health and diseases	<b>Children will be aware of yogic diet</b>
		<ul style="list-style-type: none"> <li>• Introduction to yoga diet</li> </ul>	<b>Children will be aware of yogic diet</b>
		<ul style="list-style-type: none"> <li>• Dincharya and ritucharya with respect of yogic life style</li> </ul>	<b>Children understand yoga is not just a set of physical exercise ,it is a complete lifestyle that helps maintain physical , mental , emotional and sipritual health.</b>
	PART B - UNIT 3- YOGA FOR HEALTH PROMOTION		
		UNIT TEST II 14-12-2026	

<b>February</b>	
	Practical Exam ( Before February 05 )

Final Exam Date: 15-02-2027